

## Introduction

### Introduction to the Eleventh Conference on Cancer Therapy with Antibodies and Immunoconjugates

David M. Goldenberg .....5499s

## Session I: New Antibodies and Approaches

Moderators: Alan L. Epstein, Eric K. Rowinsky, and Robert M. Sharkey

### Cell Cycle Disturbances and Mitotic Catastrophes in HeLa Hep2 Cells following 2.5 to 10 Gy of Ionizing Radiation

David Eriksson, Per-Olov Löfroth, Lennart Johansson, Katrine Åhlström Riklund, and Torgny Stigbrand .....5501s

### The La Autoantigen Is a Malignancy-Associated Cell Death Target That Is Induced by DNA-Damaging Drugs

Fares Al-Ejeh, Jocelyn M. Darby, and Michael P. Brown .....5509s

### In vivo Targeting of Dead Tumor Cells in a Murine Tumor Model Using a Monoclonal Antibody Specific for the La Autoantigen

Fares Al-Ejeh, Jocelyn M. Darby, Katherine Pensa, Kerrilyn R. Diener, John D. Hayball, and Michael P. Brown .....5519s

### Bortezomib Sensitizes Non-Hodgkin's Lymphoma Cells to Apoptosis Induced by Antibodies to Tumor Necrosis Factor-Related Apoptosis-Inducing Ligand (TRAIL) Receptors TRAIL-R1 and TRAIL-R2

Mitchell R. Smith, Fang Jin, and Indira Joshi .....5528s

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Leo Christopher DeRosier, Donald J. Buchsbaum, Patsy G. Oliver, Zhi-Qiang Huang, Jeffrey C. Sellers, William E. Grizzle, Wenquan Wang, Tong Zhou, Kurt R. Zinn, Joshua W. Long, and Selwyn M. Vickers .....5535s

### Review: Monoclonal Antibodies to the Vascular Endothelial Growth Factor Receptor-2 in Cancer Therapy

Hagop Youssoufian, Daniel J. Hicklin, and Eric K. Rowinsky .....5544s

### IMC-A12, a Human IgG<sub>1</sub> Monoclonal Antibody to the Insulin-Like Growth Factor I Receptor

Eric K. Rowinsky, Hagop Youssoufian, James R. Tonra, Phillip Solomon, Douglas Burtrum, and Dale L. Ludwig .....5549s

### CD74: A New Candidate Target for the Immunotherapy of B-Cell Neoplasms

Rhona Stein, M. Jules Mattes, Thomas M. Cardillo, Hans J. Hansen, Chien-Hsing Chang, Jack Burton, Serengulam Govindan, and David M. Goldenberg .....5556s

### A Divalent Hapten-Peptide Induces Apoptosis in Human Non-Hodgkin Lymphoma Cell Lines Targeted by Anti-CD20 × Anti-Hapten Bispecific Antibodies

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## Session II: Pretargeting

Moderators: Jean-François F. Chatal and Oliver W. Press

### Improved Tumor Targeting and Decreased Normal Tissue Accumulation through Extracorporeal Affinity Adsorption in a Two-Step Pretargeting Strategy

Linda Mårtensson, Rune Nilsson, Tomas Ohlsson, Hans-Olov Sjögren, Sven-Erik Strand, and Jan Tennvall .....5572s

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Robert M. Sharkey, Habibe Karacay, William J. McBride, Edmund A. Rossi, Chien-Hsing Chang, and David M. Goldenberg.....5577s

**The Dock and Lock Method: A Novel Platform Technology for Building Multivalent, Multifunctional Structures of Defined Composition with Retained Bioactivity**

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*Moderators: Steven M. Larson, Claude Meares, Stanley J. Goldsmith, and Richard L. Wahl*

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*Moderators: Louis Weiner, Ruby Meredith, and John P. Leonard*

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**Brief Overview of Preclinical and Clinical Studies in the Development of Intraperitoneal Radioimmunotherapy for Ovarian Cancer**

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**A Phase I Study of <sup>90</sup>Yttrium-Ibritumomab-Tiuxetan in Children and Adolescents with Relapsed/Refractory CD20 Positive Non-Hodgkin's Lymphoma: A Children's Oncology Group Study**

Erin Cooney-Quarter, Mark Krailo, Anne Angiolillo, Rashid A. Fawwaz, Gregory Wiseman, Lauren Harrison, Virginia Kohl, Peter C. Adamson, Janet Ayello, Carmella vande Ven, Sherrie L. Perkins, and Mitchell S. Cairo .....

**5652s**

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## About the Cover

A number of different topics were discussed at the 11<sup>th</sup> Conference. A new human antibody to the insulin-growth factor I receptor (IGF-IR), which can block downstream MAPK and P13/AKT pathways, was presented (A, Rowinsky *et al.* on page 5549s in this issue). This antibody shows promising anti-tumor activity in animal models alone and in combination with chemotherapy. Innovative antibody constructs, including selective high affinity ligand (SHAL) antibody mimics targeting HLA-DR10 (B, Balhorn *et al.* on page 5621s in this issue), and a new platform for preparing multivalent, multifunctional bispecific antibodies using a newly described Dock and Lock procedure (C, Chang *et al.* on page 5586s in this issue) were presented. Microscopic human colon cancer as small as 0.3 mm were disclosed in the lungs using microPET imaging, and autoradiography illustrated the selective uptake in the metastatic tumors (D, Sharkey *et al.* on page 5577s in this issue). Multivalent bispecific antibodies prepared by the Dock and Lock procedure were used in a pretargeting setting for targeting radionuclides (E, Sharkey *et al.* on page 5577s in this issue).

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# Clinical Cancer Research

**13 (18)**

*Clin Cancer Res* 2007;13:5646s-5497.

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